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## QUARTERLY GROUNDWATER MONITORING REPORT

CEDAR CHEMICAL CORPORATION

Prepared for:

Cedar Chemical Corporation  
Highway 242  
West Helena, Arkansas 72390

Prepared by:

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June 6, 1996

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## **1.0 INTRODUCTION**

Cedar Chemical Corporation agreed to conduct a Facility Investigation (FI) pursuant to Consent Administrative Order No. LIS 91-118, issued by the Arkansas Department of Pollution Control and Ecology (ADPC&E) for the Cedar Chemical facility in West Helena, Arkansas. As part of the FI, Cedar was required to conduct quarterly groundwater monitoring for one year. The first quarterly sampling event was completed during the week of April 1, 1996. This Groundwater Monitoring Report describes the activities of this event.

### **1.1 Investigation Background**

To date, 32 wells and eight piezometers have been installed on- and offsite at the Cedar Chemical facility. Eight of the 32 wells are screened in the noncontinuous surficial saturated zone overlying the alluvial clay semiconfining unit. The remaining 24 wells are screened in the alluvial aquifer overlying the Jackson/Claiborne Group (Jackson Clay). Through the previous groundwater sampling events conducted during the investigation, it has been determined that the primary site constituents of concern in the alluvial aquifer are 1, 2-dichloroethane, a chlorinated volatile organic, and Dinoseb, a nitrated herbicide. 1,2-Dichloroethane is no longer used in any production process at the facility. Dinoseb has never been produced at the facility under Cedar Chemical's ownership and has not been manufactured at the plant since the mid-1980s.

### **1.2 Quarterly Groundwater Monitoring Plan**

Quarterly groundwater sampling is being conducted to monitor the changing conditions of the contamination in the alluvial aquifer and the surficial saturated zone. This will be accomplished by analyzing groundwater samples for total organic halides (TOX) by U.S. Environmental Protection Agency Method 9020 and Total Organic Carbon (TOC) by Method 415.1. TOX and TOC are commonly used indicator parameters used to observe fluctuations in site constituent concentrations resulting from contaminant migration or degradation. The TOX analysis measures the total amount of chlorine, bromine, and iodine ions in the sample and the TOC

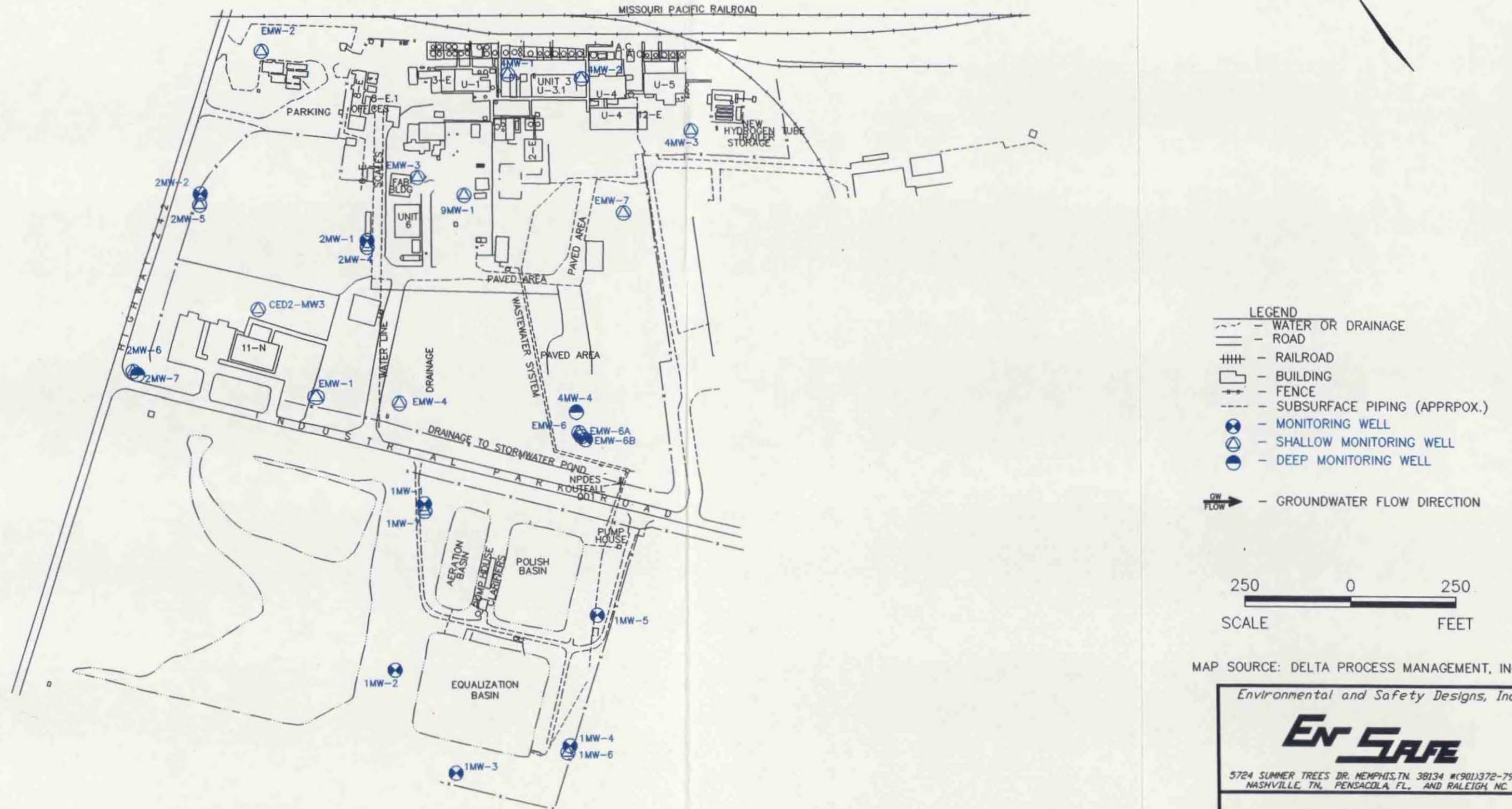
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analysis measures the total amount of organic carbon. Changes in these totals from quarter to quarter should reflect changes in individual contaminant concentrations. If extreme fluctuations are observed in the indicator parameter concentrations, a full scan analysis may be performed.

During the FI's third phase, all wells, except well 9MW-1 were sampled for TOX and TOC. 9MW-1 was not sampled due to inaccessibility. Select wells were sampled for volatile and semivolatile organics (VOCs and SVOCs, respectively) in addition to TOX and TOC. This was conducted to establish a correlation between the VOC and SVOC concentrations and the indicator parameter concentrations. The wells selected for additional analysis were 2MW-6, 4MW-2, EMW-7, OFFMW-1, OFFMW-2, OFFMW-3, OFFMW-4, and an irrigation well on the neighboring Blackhawk property. The results of this sampling event are presented in Section 3 and in the FI Status Report submitted to ADPC&E on February 14, 1996. This information will also be included in the Final Facility Investigation Report.

The first quarterly sampling event was completed during the week of April 1, 1996. All wells, except of 2MW-1, 2MW-2, and EMW-6C were sampled for TOX and TOC analyses (Figure 1). Wells 2MW-1 and 2MW-2 are screened in a seasonal perched saturated zone and, during previous sampling events, are typically purged dry. Several days of recharge after purging rarely produce sufficient sample volume. Well EMW-6C is typically dry and was dry during this event. The offsite wells and well EMW-2 were sampled for VOCs and SVOCs in addition to the indicator parameters. Well EMW-2 was selected as a background well since it is hydraulically upgradient of the site and has historically been free of contamination.



MAP SOURCE: DELTA PROCESS MANAGEMENT, INC.

Environmental and Safety Designs, Inc.



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FIGURE 1  
SITE MAP & WELL LOCATIONS  
CEDAR CHEMICAL  
QUARTERLY GROUNDWATER MONITORING

DWG DATE: 06/05/96 DWG NAME: C2162QSM

## **2.0 GROUNDWATER SAMPLING PROCEDURES**

Groundwater samples were collected using both peristaltic and centrifugal pumps and dedicated Teflon tubing. Sampling procedures for the peristaltic pump were consistent with those discussed in Section 3.4 of *Facility Investigation Report*, (EnSafe, March 2, 1995). Centrifugal pump sampling procedures varied from the referenced procedures only by lack of need for a transfer bottle. Samples from the centrifugal pump were collected directly from the pump tubing. The samples were collected in the appropriate preserved sample containers.

Once the samples were collected, each container was labeled with the well identification number, the analysis method for the sample, and the date and time of collection. Samples were placed in an ice chest for transport to the field trailer, where they were stored in a refrigerator until ready for shipment to the Paradigm Analytical Laboratories, Inc. in Wilmington, North Carolina.

Samples were shipped to the laboratory in ice chests. Ice-filled, resealable plastic bags were placed in the remaining spaces of the chests to maintain the 4°C shipping temperature.

All sampling equipment that came in contact with the monitoring wells was decontaminated prior to use in each well. Decontamination procedures were consistent with those discussed in Section 3.5 of the FI report, with one exception. The decontaminated sampling equipment was wrapped in plastic rather than aluminum foil for transfer between sampling locations.

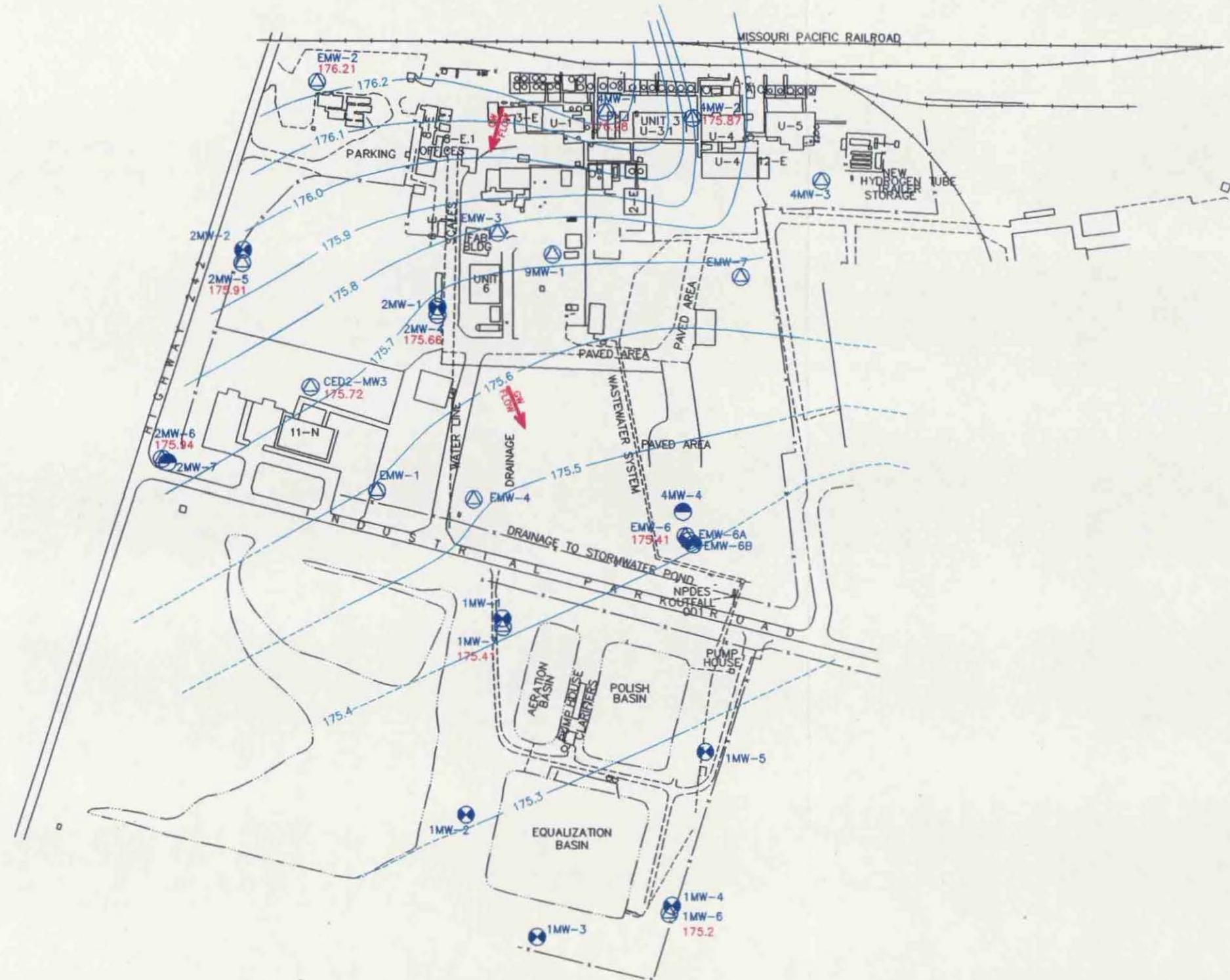
### **2.1 Potentiometric Surface Map**

Static water levels were measured at each well prior to sampling. All water levels were recorded on the same day. This reduces the potential of natural fluctuations in the levels affecting the contoured surface of the potentiometric surface map. Measurements were made to the nearest one-hundredth of a foot using an electronic water level indicator. The depth to groundwater was recorded on the groundwater sampling sheet for calculating purge volumes and

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was referenced to mean sea level for potentiometric surface mapping. Table 1 presents the static water levels for the first quarterly sampling event. Figure 2 presents the potentiometric surface observed during this event. Potentiometric surface maps will be produced for all sampling events.



LEGEND

- WATER OR DRAINAGE
- ROAD
- |||| - RAILROAD
- BUILDING
- FENCE
- SUBSURFACE PIPING (APPROX.)
- - MONITORING WELL
- △ - SHALLOW MONITORING WELL
- - DEEP MONITORING WELL
- POTENTIOMETRIC SURFACE
- - GROUNDWATER FLOW DIRECTION

250 0 250  
SCALE FEET

MAP SOURCE: DELTA PROCESS MANAGEMENT, INC.

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**EnSafe**

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FIGURE 2  
POTENTIOMETRIC SURFACE MAP  
APRIL 1, 1996  
CEDAR CHEMICAL  
QUARTERLY GROUNDWATER MONITORING

DWG DATE: 06/05/96 DWG NAME: C2162PT2

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**Table 1**  
**Cedar Chemical**  
**Static Water Elevations and Organic Vapor Concentrations**  
**First Quarterly Sampling Event**

Well Number	Top of Casing Elevation (feet msl)	Depth to Water (feet bgs)	Static Water Elevation (feet msl)	Organic Vapor Concentration (ppm)
1MW-1 <sup>a</sup>	195.43	8.45	186.98	0.4
1MW-2 <sup>a</sup>	194.4	8.12	186.28	0.9
1MW-3	191.49	10.94	180.55	1.2
1MW-4	191.9	8.23	183.67	1.3
1MW-5	194.16	7.24	186.92	1.1
1MW-6	191.97	16.85	175.12	0.9
1MW-7	195.46	20.05	175.41	0.8
2MW-1	201.17	— <sup>b</sup>	—	—
2MW-2	199.88	— <sup>b</sup>	—	—
2MW-3	198.76	23.04	175.72	0
2MW-4	201.1	25.44	175.66	0
2MW-5	199.9	24.08	175.82	0
2MW-6	198.47	22.73	175.74	1.1
2MW-7	198.7	23.03	175.67	0
4MW-1	197.69	21.41	176.28	1216
4MW-2	198.01	22.14	175.87	20.1
4MW-3	200.91	25.21	175.7	0.5
4MW-4	202.04	26.65	175.39	0
9MW-1 <sup>c</sup>	—	20.26	—	—
EMW-1 <sup>a</sup>	198.23	12.65	185.58	0
EMW-2	199.87	23.66	176.21	0
EMW-3 <sup>a</sup>	199.31	23.69	175.62	0
EMW-4 <sup>a</sup>	198.13	35.99	162.14	0
EPZ-5	— <sup>c</sup>	24.34	—	0
EMW-6	199.56	24.15	175.41	0
EMW-6A <sup>a</sup>	198.54	23.11	175.43	0
EMW-6B <sup>a</sup>	198.09	31.17	166.92	0
EMW-7	198.47	22.8	175.67	0

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**Table 1**  
**Cedar Chemical**  
**Static Water Elevations and Organic Vapor Concentrations**  
**First Quarterly Sampling Event**

Well Number	Top of Casing Elevation (feet msl)	Depth to Water (feet bgs)	Static Water Elevation (feet msl)	Organic Vapor Concentration (ppm)
OFFMW-1	— c	9.28	NA	6.2
OFFMW-2	— c	9.76	NA	7.2
OFFMW-3	— c	9.56	NA	0.8
OFFMW-4	— c	9.58	NA	0.9

**Notes:**

- a = Well not used in production of potentiometric surface map due to suspect top of casing survey data due to damaged protective casing or anomalous elevation relative to neighboring wells, or it was not screened in the alluvial aquifer.
- b = No static water level recorded.
- c = Well not surveyed.
- msl = mean sea level
- ppm = parts per million
- bgs = below ground surface

### **3.0 RESULTS OF THE FIRST-QUARTER SAMPLING EVENT**

This section presents the data gathered during the first-quarter sampling event. Included are data summary tables for the baseline groundwater sampling event and the first quarterly sampling event. The laboratory report for the first-quarter sampling event is provided in Appendix A.

Analytical results were received from the laboratory on May 4, 1996. Table 2 summarizes the results of the first-quarter sampling event. Tables 3 and 4 present the percent change comparisons of the results from the baseline and first-quarter groundwater sampling events.

There is a variation between the baseline sampling event TOC results presented in Table 4 and the TOC results presented in the status report of February 1996. During the validation of the baseline sampling event data, a reportable TOC concentration was observed in the field blank sample. The TOC concentrations for all groundwater samples were therefore adjusted in accordance with data validation procedures. However, after reviewing the data from the first-quarter groundwater sampling event and comparing them with the data for the baseline sampling event, it was determined that the TOC in the field blank had no effect on the results of the field samples. Therefore, the baseline sampling data in this report have been presented as in the original (prevalidated) laboratory report.

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**Table 2**  
**Cedar Chemical FI — First-Quarter Results TOX and TOC**

Well	TOX ( $\mu\text{L}$ )	TOC (mg/L)
1MW-1	165	3.9
1MW-2	34.2	1.2
1MW-3	1,370	11
1MW-4	1,250	13
1MW-5	312	2.1
1MW-6	3,010	53
1MW-7	214	1.9
2MW-3	187	10
2MW-4	572	6.4
2MW-5	252	2.4
2MW-6	1,610	2.4
2MW-7	20	1.4
4MW-1	61,900	146
4MW-2	2,560	31
4MW-2 duplicate sample	3,220	21
4MW-3	23,000	15
4MW-4	1,810	15.5
4MW-4 duplicate	1,360	16.5
9MW-1	1,440	23.5
OFFMW1	158	8
OFFMW2	128	9.5
OFFMW2 duplicate	204	9.4
OFFMW-3	96	1.8

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**Table 2**  
**Cedar Chemical FI — First-Quarter Results TOX and TOC**

Well	TOX ( $\mu\text{L}$ )	TOC (mg/L)
OFFMW-4	82	9.3
EMW-1	503	3.5
EMW-2	478	1.5
EMW-3	9,310	16.9
EMW-4	1,980	22
EPZ-5	250	1.6
EMW-6	630	10.5
EMW-6A	520	5.4
EMW-6B	26,000	38.4
EMW-7	50,200	23
Field Blank	60	ND

*Notes:*

mg/L = milligrams per liter

$\mu\text{g/L}$  = micrograms per liter

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**Table 3**  
**TOC Comparison**  
**11/95 and 4/96 Data**  
**(All concentrations in µg/L)**

Well	11/95 Event	4/96 Event	Percent Change
1MW-1	5,100	3,900	24
1MW-2	2,500	1,200	52
1MW-3	23,000	<b>11,000</b>	52
1MW-42	16,000	<b>13,000</b>	19
1MW-5	4,200	2,100	50
1MW-6	30,000	<b>53,000</b>	-77
1MW-7	1,700	1,900	-12
2MW-1	NS	NS	
2MW-2	NS	NS	
2MW-3	80,000	<b>10,000</b>	88
2MW-4	7,000	6,400	9
2MW-5 (duplicate)	2,800 (2,600)	2,400	14
2MW-6	4,900	2,400	51
2MW-7	1,900	1,400	26
4MW-1	180,000	<b>146,000</b>	19
4MW-2 (duplicate)	51,000	<b>31,000</b> (21,000)	39
4MW-3	32,000	<b>15,000</b>	53
4MW-4 (duplicate)	24,000	<b>15,500</b> (16,500)	35
9MW-1	NS	<b>23,500</b>	
EMW-1	6,800	3,500	49
EMW-2	2,300	1,500	35
EMW-3	11,000	<b>16,900</b>	-54

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**Table 3**  
**TOC Comparison**  
**11/95 and 4/96 Data**  
**(All concentrations in  $\mu\text{g/L}$ )**

Well	11/95 Event	4/96 Event	Percent Change
EMW-4	21,000	22,000	-5
EMW-6	25,000	10,500	58
EMW-6A	3,800	5,400	-42
EMW-6B	65,000	38,400	41
EMW-7	29,000	23,000	21
EPZ-5	4,600	1,600	65
OFFMW-1	11,200	8,000	29
OFFMW-2 (duplicate)	8,300	9,500 (9,400)	-14
OFFMW-3 (duplicate)	2,500 (2,500)	1,800	28
OFFMW-4	5,800	9,300	-60

*Notes:*

$\mu\text{g/L}$  = micrograms per liter

NS = Not Sampled

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**Table 4**  
**TOX Comparison**  
**11/95 and 4/96 Data**  
**(All concentrations in  $\mu\text{g/L}$ )**

Well	11/95 Event	4/96 Event	Percent Change
1MW-1	181	165	9
1MW-2	73	34	53
1MW-3	1,330	1,370	-3
1MW-4	831	1,250	-50
1MW-5	294	312	-6
1MW-6	1,550	3,010	-94
1MW-7	55	214	-289
2MW-1	NS	NS	
2MW-2	NS	NS	
2MW-3	1,180	187	84
2MW-4	374	572	-53
2MW-5	264 (235)	252	5
2MW-6	1,880	1,610	14
2MW-7	320	20	94
4MW-1	31,200	61,900	-98
4MW-2	1,350	2,560 (3,220)	9
4MW-3	11,100	2,300	79
4MW-4	1,600	1,810 (1,360)	-13
9MW-1	NS	1,440	
EMW-1	1,850	503	73
EMW-2	65	478	-635
EMW-3	14,100	9,310	34

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**Table 4**  
**TOX Comparison**  
**11/95 and 4/96 Data**  
**(All concentrations in  $\mu\text{g/L}$ )**

Well	11/95 Event	4/96 Event	Percent Change
EMW-4	6,080	1,980	67
EMW-6	147	630	-329
EMW-6A	42	520	-1138
EMW-6B	32,000	26,000	19
EMW-7	50,700	50,200	1
EPZ-5	2,100	250	88
OFFMW-1	29.6 J	158	-434
OFFMW-2	80.1 J	128 (204)	-60
OFFMW-3	11.8 J (9.6 J)	96	-714
OFFMW-4	10 J	82	-720

*Notes:*

J = Estimated concentration

$\mu\text{g/L}$  = micrograms per liter

NS = Not Sampled

As with the baseline sampling event, select wells were sampled for VOCs and SVOCs. The results for this quarter of groundwater monitoring and the results from the baseline sampling event are presented below in Tables 5 and 6, respectively.

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**Table 5**  
**Cedar Chemical**  
**First-Quarter Sampling Event Results for VOC and SVOC Analyses**  
**(All concentrations in  $\mu\text{g/L}$ )**

Well	VOCs	SVOCs
	1,2-Dichloroethane	Dinoseb
OFFMW-1	U	U
OFFMW-2	140	U
OFFMW-2 duplicate	130	U
OFFMW-3	U	U
EMW-2	U	86 E

*Notes:*

U = Undetected  
 $\mu\text{g/L}$  = micrograms per liter  
E = Exceeds calibration range

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**Table 6**  
**Cedar Chemical**  
**Baseline Groundwater Sampling Event Results for VOC and SVOC Analyses**  
**(All concentrations in  $\mu\text{g/L}$ )**

Detected Compound	Sample ID			
	2MW-6	4MW-2	EMW-7	BHMW-1 Blackhawk Ag Well
Volatile Organic Compounds				
Acetone	43	U	U	U
2-Butanone	U	13	U	U
Carbon Disulfide	U	14	U	U
Chloroform	U	760 D	U	U
Chlorobenzene	U	U	10	U
1,2-Dichlorobenzene	17	76	U	U
1,2-Dichloroethane	U	260 D	87,000 D	1,200 E
trans-1,2-Dichloroethane	U	U	10	U
Methylene Chloride	U	460 D	U	U
Vinyl Acetate	U	U	10	U
Xylene (total)	U	12	U	U
o-Xylene	U	U	10	U
Semivolatile Organic Compounds				
3,4-Dichloroaniline	44	U	U	U
1,2-Dichlorobenzene	11	U	U	U
Dinoseb	U	54,000 D	33	U

**Notes:**

U = Undetected

D = Diluted sample

E = Exceeds calibration range

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The table showing percent change will be updated in each subsequent report to include the second-quarter data after that sampling event and the percent change of the three events. Conclusions will be made once the four quarters of groundwater monitoring have been completed.

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## **Appendix A**

### **Analytical Data**

CEDAR CHEMICAL - WEST HELENA, AK  
CEDAR CHEMICAL PHASE 3 DATA

G114-19 SVA	SAMPLE ID ----->	00E-G-0002-03	OFF-G-0001-03	OFF-G-0002-03	OFF-H-0002-03	OFF-G-0003-03	OFF-G-0004-03		
	ORIGINAL ID ----->	00EG000203	OFFG000103	OFFG000203	OFFH000203	OFFG000303	OFFG000403		
LAB SAMPLE ID ----->	8957	8960	8961	8962	8963	8964			
SAMPLE DATE ----->	04/02/96	04/02/96	04/02/96	04/02/96	04/02/96	04/02/96			
DATE EXTRACTED -->	04/05/96	04/05/96	04/05/96	04/05/96	04/05/96	04/05/96			
DATE ANALYZED -->	04/17/96	04/17/96	04/17/96	04/17/96	04/17/96	04/17/96			
MATRIX ----->	Water	Water	Water	Water	Water	Water	Water		
UNITS ----->	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L		
CAS #	Parameter								
83-32-9	Acenaphthene	10.	U	10.	U	10.	U	10.	U
208-96-8	Acenaphthylene	10.	U	10.	U	10.	U	10.	U
120-12-7	Anthracene	10.	U	10.	U	10.	U	10.	U
56-55-3	Benzo(a)anthracene	10.	U	10.	U	10.	U	10.	U
50-32-8	Benzo(a)pyrene	10.	U	10.	U	10.	U	10.	U
205-99-2	Benzo(b)fluoranthene	10.	U	10.	U	10.	U	10.	U
191-24-2	Benzo(g,h,i)perylene	10.	U	10.	U	10.	U	10.	U
207-08-9	Benzo(k)fluoranthene	10.	U	10.	U	10.	U	10.	U
65-85-0	Benzoic acid	20.	U	20.	U	20.	U	20.	U
100-51-6	Benzyl alcohol	10.	U	10.	U	10.	U	10.	U
111-91-1	bis(2-Chloroethoxy)methane	10.	U	10.	U	10.	U	10.	U
111-44-4	bis(2-Chloroethyl)ether	10.	U	10.	U	10.	U	10.	U
39638-32-9	Bis(2-chloroisopropyl)ether	10.	U	10.	U	10.	U	10.	U
117-81-7	bis(2-Ethylhexyl)phthalate (BEHP)	10.	U	10.	U	10.	U	10.	U
101-55-3	4-Bromophenyl-phenylether	10.	U	10.	U	10.	U	10.	U
85-68-7	Butylbenzylphthalate	10.	U	10.	U	10.	U	10.	U
106-47-8	4-Chloroaniline	10.	U	10.	U	10.	U	10.	U
59-50-7	4-Chloro-3-methylphenol	10.	U	10.	U	10.	U	10.	U
91-58-7	2-Chloronaphthalene	10.	U	10.	U	10.	U	10.	U
95-57-8	2-Chlorophenol	10.	U	10.	U	10.	U	10.	U
7005-72-3	4-Chlorophenyl-phenylether	10.	U	10.	U	10.	U	10.	U
218-01-9	Chrysene	10.	U	10.	U	10.	U	10.	U
84-74-2	Di-n-butylphthalate	10.	U	10.	U	10.	U	10.	U
117-84-0	Di-n-octylphthalate	10.	U	10.	U	10.	U	10.	U
53-70-3	Dibenzo(a,h)anthracene	10.	U	10.	U	10.	U	10.	U
132-64-9	Dibenzofuran	10.	U	10.	U	10.	U	10.	U
95-76-1	3,4-Dichloroaniline	10.	U	10.	U	10.	U	10.	U
95-50-1	1,2-Dichlorobenzene	10.	U	10.	U	10.	U	10.	U
541-73-1	1,3-Dichlorobenzene	10.	U	10.	U	10.	U	10.	U
106-46-7	1,4-Dichlorobenzene	10.	U	10.	U	10.	U	10.	U
91-94-1	3,3'-Dichlorobenzidine	20.	U	20.	U	20.	U	20.	U
120-83-2	2,4-Dichlorophenol	10.	U	10.	U	10.	U	10.	U
84-66-2	Diethylphthalate	10.	U	10.	U	10.	U	10.	U
105-67-9	2,4-Dimethylphenol	10.	U	10.	U	10.	U	10.	U
131-11-3	Dimethylphthalate	10.	U	10.	U	10.	U	10.	U
534-52-1	4,6-Dinitro-2-methylphenol	50.	U	50.	U	50.	U	50.	U
51-28-5	2,4-Dinitrophenol	50.	U	50.	U	50.	U	50.	U

\*\*\* Validation Complete \*\*\*

CEDAR CHEMICAL - WEST HELENA, AK  
CEDAR CHEMICAL PHASE 3 DATA

G114-19 SVOA	SAMPLE ID ----->	00E-G-0002-03	OFF-G-0001-03	OFF-G-0002-03	OFF-H-0002-03	OFF-G-0003-03	OFF-G-0004-03		
	ORIGINAL ID ----->	00EG000203	OFFG000103	OFFG000203	OFFH000203	OFFG000303	OFFG000403		
	LAB SAMPLE ID ----->	8957	8960	8961	8962	8963	8964		
	SAMPLE DATE ----->	04/02/96	04/02/96	04/02/96	04/02/96	04/02/96	04/02/96		
	DATE EXTRACTED -->	04/05/96	04/05/96	04/05/96	04/05/96	04/05/96	04/05/96		
	DATE ANALYZED -->	04/17/96	04/17/96	04/17/96	04/17/96	04/17/96	04/17/96		
	MATRIX ----->	Water	Water	Water	Water	Water	Water		
UNITS ----->		UG/L	UG/L	UG/L	UG/L	UG/L	UG/L		
CAS # Parameter									
121-14-2	2,4-Dinitrotoluene	10.	U	10.	U	10.	U	10.	U
606-20-2	2,6-Dinitrotoluene	10.	U	10.	U	10.	U	10.	U
88-85-7	Dinoseb	86.	J	7.	U	7.	U	7.	U
206-44-0	Fluoranthene	10.	U	10.	U	10.	U	10.	U
86-73-7	Fluorene	10.	U	10.	U	10.	U	10.	U
118-74-1	Hexachlorobenzene	10.	U	10.	U	10.	U	10.	U
87-68-3	Hexachlorobutadiene	10.	U	10.	U	10.	U	10.	U
77-47-4	Hexachlorocyclopentadiene	20.	U	20.	U	20.	U	20.	U
67-72-1	Hexachloroethane	10.	U	10.	U	10.	U	10.	U
193-39-5	Indeno(1,2,3-cd)pyrene	10.	U	10.	U	10.	U	10.	U
78-59-1	Isophorone	10.	U	10.	U	10.	U	10.	U
91-57-6	2-Methylnaphthalene	10.	U	10.	U	10.	U	10.	U
95-48-7	2-Methylphenol (o-Cresol)	10.	U	10.	U	10.	U	10.	U
106-44-5	4-Methylphenol (p-Cresol)	10.	U	10.	U	10.	U	10.	U
621-64-7	N-Nitroso-di-n-propylamine	10.	U	10.	U	10.	U	10.	U
86-30-6	N-Nitrosodiphenylamine	10.	U	10.	U	10.	U	10.	U
91-20-3	Naphthalene	10.	U	10.	U	10.	U	10.	U
88-74-4	2-Nitroaniline	10.	U	10.	U	10.	U	10.	U
99-09-2	3-Nitroaniline	10.	U	10.	U	10.	U	10.	U
100-01-6	4-Nitroaniline	10.	U	10.	U	10.	U	10.	U
98-95-3	Nitrobenzene	10.	U	10.	U	10.	U	10.	U
88-75-5	2-Nitrophenol	10.	U	10.	U	10.	U	10.	U
100-02-7	4-Nitrophenol	50.	U	50.	U	50.	U	50.	U
87-86-5	Pentachlorophenol	50.	U	50.	U	50.	U	50.	U
85-01-8	Phenanthrene	10.	U	10.	U	10.	U	10.	U
108-95-2	Phenol	10.	U	10.	U	10.	U	10.	U
709-98-8	Propanil	10.	U	10.	U	10.	U	10.	U
129-00-0	Pyrene	10.	U	10.	U	10.	U	10.	U
120-82-1	1,2,4-Trichlorobenzene	10.	U	10.	U	10.	U	10.	U
95-95-4	2,4,5-Trichlorophenol	10.	U	10.	U	10.	U	10.	U
88-06-2	2,4,6-Trichlorophenol	10.	U	10.	U	10.	U	10.	U
62-53-3	Aniline	10.	U	10.	U	10.	U	10.	U

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CEDAR CHEMICAL - WEST HELENA, AK  
CEDAR CHEMICAL PHASE 3 DATA

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G114-19 TOC	SAMPLE ID ----->	001-G-0001-03	001-G-0002-03	001-G-0003-03	001-G-0004-03	001-G-0005-03	001-G-0006-03
	ORIGINAL ID ----->	001G000103	001G000203	001G000303	001G000403	001G000503	001G000603
	LAB SAMPLE ID ---->	8940	8941	8942	8943	8944	8945
	SAMPLE DATE ----->	04/01/96	04/01/96	04/01/96	04/01/96	04/01/96	04/01/96
	DATE EXTRACTED -->	04/10/96	04/10/96	04/10/96	04/10/96	04/10/96	04/10/96
	DATE ANALYZED --->	04/10/96	04/10/96	04/10/96	04/10/96	04/10/96	04/10/96
	MATRIX ----->	Water	Water	Water	Water	Water	Water
UNITS ----->		MG/L	A	MG/L	A	MG/L	A
CAS #	Parameter						
9999900-04-2	Total Organic Carbon (TOC)	3.9	J	1.2	J	11.	J
						13.	J
						2.1	J
						53.	J

\*\*\* Validation Complete \*\*\*

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CEDAR CHEMICAL - WEST HELENA, AK  
CEDAR CHEMICAL PHASE 3 DATA

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G114-19 TOC	SAMPLE ID -----> ORIGINAL ID -----> LAB SAMPLE ID ----> SAMPLE DATE -----> DATE EXTRACTED --> DATE ANALYZED ---> MATRIX -----> UNITS ----->	001-G-0007-03 001G000703 8946 04/01/96 04/10/96 04/10/96 Water MG/L	002-G-0003-03 002G000303 8947 04/02/96 04/10/96 04/10/96 Water MG/L	A	002-G-0004-03 002G000403 8948 04/02/96 04/10/96 04/10/96 Water MG/L	A	002-G-0005-03 002G000503 8949 04/02/96 04/10/96 04/10/96 Water MG/L	A	002-G-0006-03 002G000603 8967 04/03/96 04/10/96 04/10/96 Water MG/L	A	002-G-0007-03 002G000703 8966 04/03/96 04/11/96 04/11/96 Water MG/L	A
CAS #	Parameter											
9999900-04-2	Total Organic Carbon (TOC)	1.9 J	10. J		6.4 J		2.4 J		2.4 J		1.4 J	

\*\*\* Validation Complete \*\*\*

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CEDAR CHEMICAL - WEST HELENA, AK  
CEDAR CHEMICAL PHASE 3 DATA

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G114-19 TOC	SAMPLE ID -----> ORIGINAL ID -----> LAB SAMPLE ID ---> SAMPLE DATE -----> DATE EXTRACTED --> DATE ANALYZED ---> MATRIX -----> UNITS ----->	004-G-0001-03 004G000103 9009 04/03/96 04/12/96 04/12/96 Water MG/L	004-G-0002-03 004G000203 9010 04/03/96 04/11/96 04/11/96 Water MG/L	A	004-H-0002-03 004H000203 9011 04/03/96 04/11/96 04/11/96 Water MG/L	A	004-G-0003-03 004G000303 8958 04/03/96 04/10/96 04/10/96 Water MG/L	A	004-G-0004-03 004G000403 9012 04/03/96 04/11/96 04/11/96 Water MG/L	A	004-H-0004-03 004H000403 9013 04/03/96 04/11/96 04/11/96 Water MG/L	A
CAS # Parameter												
9999900-04-2 Total Organic Carbon (TOC)	146.	J	31.	J	21.	J	15.	J	15.5	J	16.5	J

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CEDAR CHEMICAL - WEST HELENA, AK  
CEDAR CHEMICAL PHASE 3 DATA

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G114-19 TOC	SAMPLE ID -----> ORIGINAL ID -----> LAB SAMPLE ID -----> SAMPLE DATE -----> DATE EXTRACTED ---> DATE ANALYZED ---> MATRIX -----> UNITS ----->	009-G-0001-03 009G000103 8965 04/02/96 04/11/96 04/11/96 Water MG/L	00E-G-0001-03 00EG000103 8956 04/02/96 04/10/96 04/10/96 Water MG/L	A	00E-G-0002-03 00EG000203 8957 04/02/96 04/12/96 04/12/96 Water MG/L	A	00E-G-0003-03 00EG000303 8950 04/02/96 04/10/96 04/10/96 Water MG/L	A	00E-G-0004-03 00EG000403 8951 04/02/96 04/10/96 04/10/96 Water MG/L	A	00E-G-0006-03 00EG000603 8952 04/01/96 04/10/96 04/10/96 Water MG/L	A
CAS # Parameter												
9999900-04-2 Total Organic Carbon (TOC)		23.5 J		3.5 J		1.5 J		16.9 J		22. J		10.5 J

\*\*\* Validation Complete \*\*\*

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CEDAR CHEMICAL - WEST HELENA, AK  
CEDAR CHEMICAL PHASE 3 DATA

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G114-19 TOC	SAMPLE ID -----> ORIGINAL ID -----> LAB SAMPLE ID -----> SAMPLE DATE -----> DATE EXTRACTED --> DATE ANALYZED --> MATRIX -----> UNITS ----->	00E-G-0007-03 00EG000703 8955 04/03/96 04/10/96 04/10/96 Water MG/L	00E-G-006A-03 00EG006A03 8953 04/01/96 04/10/96 04/10/96 Water MG/L	A	00E-G-006B-03 00EG006B03 8954 04/01/96 04/10/96 04/10/96 Water MG/L	A	OFF-G-0001-03 OFFG000103 8960 04/02/96 04/11/96 04/11/96 Water MG/L	A	OFF-G-0002-03 OFFG000203 8961 04/02/96 04/11/96 04/11/96 Water MG/L	A	OFF-H-0002-03 OFFH000203 8962 04/02/96 04/11/96 04/11/96 Water MG/L	A
CAS # Parameter												
9999900-04-2 Total Organic Carbon (TOC)	23. J	5.4 J		38.4 J		8. J		9.5 J		9.4 J		

\*\*\* Validation Complete \*\*\*

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CEDAR CHEMICAL - WEST HELENA, AK  
CEDAR CHEMICAL PHASE 3 DATA

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G114-19 TOC	SAMPLE ID -----> ORIGINAL ID -----> LAB SAMPLE ID ----> SAMPLE DATE -----> DATE EXTRACTED --> DATE ANALYZED --> MATRIX -----> UNITS ----->	OFF-G-0003-03 OFFG000303 8963 04/02/96 04/11/96 04/11/96 Water MG/L	OFF-G-0004-03 OFFG000403 8964 04/02/96 04/11/96 04/11/96 Water MG/L	A	PZE-G-0005-03 PZEG000503 8959 04/03/96 04/10/96 04/10/96 Water MG/L	A			
CAS #	Parameter								
9999900-04-2	Total Organic Carbon (TOC)	1.8 J	9.3 J		1.6 J				

\*\*\* Validation Complete \*\*\*

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CEDAR CHEMICAL - WEST HELENA, AK  
CEDAR CHEMICAL PHASE 3 DATA

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G114-19 TOX	SAMPLE ID -----> ORIGINAL ID -----> LAB SAMPLE ID -----> SAMPLE DATE -----> DATE EXTRACTED --> DATE ANALYZED --> MATRIX -----> UNITS ----->	001-G-0001-03 001G000103 8940 04/01/96 04/09/96 04/09/96 Water UG/L	A	001-G-0002-03 001G000203 8941 04/01/96 04/09/96 04/09/96 Water UG/L	A	001-G-0003-03 001G000303 8942 04/01/96 04/09/96 04/09/96 Water UG/L	A	001-G-0004-03 001G000403 8943 04/01/96 04/09/96 04/09/96 Water UG/L	A	001-G-0005-03 001G000503 8944 04/01/96 04/09/96 04/09/96 Water UG/L	A	001-G-0006-03 001G000603 8945 04/01/96 04/09/96 04/09/96 Water UG/L	A
CAS # Parameter													
9999000-02-2 Total Organic Halide		165. J		34.2 J		1370. J		1250. J		312. J		3010. J	

\*\*\* Validation Complete \*\*\*

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CEDAR CHEMICAL - WEST HELENA, AK  
CEDAR CHEMICAL PHASE 3 DATA

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G114-19 TOX	SAMPLE ID -----> ORIGINAL ID -----> LAB SAMPLE ID ---> SAMPLE DATE -----> DATE EXTRACTED --> DATE ANALYZED ---> MATRIX -----> UNITS ----->	001-G-0007-03 001G000703 8946 04/01/96 04/10/96 04/10/96 Water UG/L	002-G-0003-03 002G000303 8947 04/02/96 04/10/96 04/10/96 Water UG/L	A	002-G-0004-03 002G000403 8948 04/02/96 04/10/96 04/10/96 Water UG/L	A	002-G-0005-03 002G000503 8949 04/02/96 04/10/96 04/10/96 Water UG/L	A	002-G-0006-03 002G000603 8967 04/03/96 04/12/96 04/12/96 Water UG/L	A	002-G-0007-03 002G000703 8966 04/03/96 04/12/96 04/12/96 Water UG/L	A
CAS #	Parameter											
9999000-02-2	Total Organic Halide	214. J	187. J		572. J		252. J		1610. J		20. J	

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CEDAR CHEMICAL - WEST HELENA, AK  
CEDAR CHEMICAL PHASE 3 DATA

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TOX

SAMPLE ID -----> 004-G-0001-03  
ORIGINAL ID -----> 004G000103  
LAB SAMPLE ID -----> 9009  
SAMPLE DATE -----> 04/03/96  
DATE EXTRACTED --> 04/14/96  
DATE ANALYZED --> 04/14/96  
MATRIX -----> Water  
UNITS -----> UG/L

004-G-0002-03  
004G000203  
9010  
04/03/96  
04/14/96  
04/14/96  
Water  
UG/L

004-H-0002-03  
004H000203  
9011  
04/03/96  
04/14/96  
04/14/96  
Water  
UG/L

004-G-0003-03  
004G000303  
8958  
04/03/96  
04/11/96  
04/11/96  
Water  
UG/L

004-G-0004-03  
004G000403  
9012  
04/03/96  
04/14/96  
04/14/96  
Water  
UG/L

004-H-0004-03  
004H000403  
9013  
04/03/96  
04/14/96  
04/14/96  
Water  
UG/L

A

CAS # Parameter

9999000-02-2 Total Organic Halide

61900. J 2560. J 3220. J 23000. J 1810. J 1360. J

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CEDAR CHEMICAL - WEST HELENA, AK  
CEDAR CHEMICAL PHASE 3 DATA

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G114-19 TOX	SAMPLE ID -----> ORIGINAL ID -----> LAB SAMPLE ID -----> SAMPLE DATE -----> DATE EXTRACTED --> DATE ANALYZED --> MATRIX -----> UNITS ----->	009-G-0001-03 009G000103 8965 04/02/96 04/12/96 04/12/96 Water UG/L	00E-G-0001-03 00EG000103 8956 04/02/96 04/11/96 04/11/96 Water UG/L	A	00E-G-0002-03 00EG000203 8957 04/02/96 04/11/96 04/11/96 Water UG/L	A	00E-G-0003-03 00EG000303 8950 04/02/96 04/11/96 04/11/96 Water UG/L	A	00E-G-0004-03 00EG000403 8951 04/02/96 04/10/96 04/10/96 Water UG/L	A	00E-G-0006-03 00EG000603 8952 04/01/96 04/11/96 04/11/96 Water UG/L	A	
CAS #	Parameter												
9999000-02-2	Total Organic Halide	1440.	J	503.	J	478.	J	9310.	J	1980.	J	630.	J

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CEDAR CHEMICAL - WEST HELENA, AK  
CEDAR CHEMICAL PHASE 3 DATA

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G114-19 TOX	SAMPLE ID -----> ORIGINAL ID -----> LAB SAMPLE ID -----> SAMPLE DATE -----> DATE EXTRACTED --> DATE ANALYZED --> MATRIX -----> UNITS ----->	00E-G-0007-03 00EG000703 8955 04/03/96 04/11/96 04/11/96 Water UG/L	A	00E-G-006A-03 00EG006A03 8953 04/01/96 04/11/96 04/11/96 Water UG/L	A	00E-G-006B-03 00EG006B03 8954 04/01/96 04/11/96 04/11/96 Water UG/L	A	OFF-G-0001-03 OFFG000103 8960 04/02/96 04/12/96 04/12/96 Water UG/L	A	OFF-G-0002-03 OFFG000203 8961 04/02/96 04/12/96 04/12/96 Water UG/L	A	OFF-H-0002-03 OFFH000203 8962 04/02/96 04/12/96 04/12/96 Water UG/L	A
CAS #	Parameter												
9999000-02-2	Total Organic Halide	50200.	J	520.	J	26000.	J	158.	J	128.	J	204.	J

\*\*\* Validation Complete \*\*\*

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CEDAR CHEMICAL - WEST HELENA, AK  
CEDAR CHEMICAL PHASE 3 DATA

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G114-19 TOX	SAMPLE ID -----> ORIGINAL ID -----> LAB SAMPLE ID -----> SAMPLE DATE -----> DATE EXTRACTED --> DATE ANALYZED ---> MATRIX -----> UNITS ----->	OFF-G-0003-03 OFFG000303 8963 04/02/96 04/12/96 04/12/96 Water UG/L	OFF-G-0004-03 OFFG000403 8964 04/02/96 04/12/96 04/12/96 Water UG/L	A	PZE-G-0005-03 PZEG000503 8959 04/03/96 04/11/96 04/11/96 Water UG/L	A			
CAS #	Parameter								
9999000-02-2	Total Organic Halide	96.	J	82.	J	250.	J		

CEDAR CHEMICAL - WEST HELENA, AK  
CEDAR CHEMICAL PHASE 3 DATA

G114-19 VOA	SAMPLE ID ----->	00E-G-0002-03	OFF-G-0001-03	OFF-G-0002-03	OFF-H-0002-03	OFF-G-0003-03	OFF-G-0004-03	
	ORIGINAL ID ----->	00EG000203	OFFG000103	OFFG000203	OFFH000203	OFFG000303	OFFG000403	
LAB SAMPLE ID ----->	8957	8960	8961	8962	8963	8964		
SAMPLE DATE ----->	04/02/96	04/02/96	04/02/96	04/02/96	04/02/96	04/02/96		
DATE EXTRACTED --->	04/12/96	04/11/96	04/12/96	04/12/96	04/11/96	04/11/96		
DATE ANALYZED --->	04/12/96	04/11/96	04/12/96	04/12/96	04/11/96	04/11/96		
MATRIX ----->	Water	Water	Water	Water	Water	Water		
UNITS ----->	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L		
CAS #	Parameter							
67-64-1 Acetone	25.	U	25.	U	25.	U	25.	U
71-43-2 Benzene	10.	U	10.	U	10.	U	10.	U
75-27-4 Bromodichloromethane	10.	U	10.	U	10.	U	10.	U
75-25-2 Bromoform	10.	U	10.	U	10.	U	10.	U
74-83-9 Bromomethane	10.	U	10.	U	10.	U	10.	U
78-93-3 2-Butanone (MEK)	10.	U	10.	U	10.	J	10.	U
75-15-0 Carbon disulfide	10.	U	10.	U	10.	U	10.	U
56-23-5 Carbon tetrachloride	10.	U	10.	U	10.	U	10.	U
108-90-7 Chlorobenzene	10.	U	10.	U	10.	U	10.	U
75-00-3 Chloroethane	10.	U	10.	U	10.	U	10.	U
110-75-8 2-Chloroethyl Vinyl Ether	10.	U	10.	U	10.	U	10.	U
67-66-3 Chloroform	10.	U	10.	U	10.	U	10.	U
74-87-3 Chloromethane	10.	U	10.	U	10.	U	10.	U
124-48-1 Dibromochloromethane	10.	U	10.	U	10.	U	10.	U
95-50-1 1,2-Dichlorobenzene	10.	U	10.	U	10.	U	10.	U
541-73-1 1,3-Dichlorobenzene	10.	U	10.	U	10.	U	10.	U
106-46-7 1,4-Dichlorobenzene	10.	U	10.	U	10.	U	10.	U
75-34-3 1,1-Dichloroethane	10.	U	10.	U	10.	U	10.	U
107-06-2 1,2-Dichloroethane	10.	U	10.	U	140.	130.	10.	U
75-35-4 1,1-Dichloroethene	10.	U	10.	U	10.	U	10.	U
156-59-2 cis-1,2-Dichloroethene	10.	U	10.	U	10.	U	10.	U
156-60-5 trans-1,2-Dichloroethene	10.	U	10.	U	10.	U	10.	U
78-87-5 1,2-Dichloropropane	10.	U	10.	U	10.	U	10.	U
10061-01-5 cis-1,3-Dichloropropene	10.	U	10.	U	10.	U	10.	U
10061-02-6 trans-1,3-Dichloropropene	10.	U	10.	U	10.	U	10.	U
100-41-4 Ethylbenzene	10.	U	10.	U	10.	U	10.	U
75-69-4 Trichlorofluoromethane	10.	U	10.	U	10.	U	10.	U
591-78-6 2-Hexanone	10.	U	10.	U	10.	U	10.	U
108-10-1 4-Methyl-2-Pentanone (MIBK)	10.	U	10.	U	10.	U	10.	U
75-09-2 Methylene chloride	10.	U	10.	U	10.	U	10.	U
100-42-5 Styrene	10.	U	10.	U	10.	U	10.	U
79-34-5 1,1,2,2-Tetrachloroethane	10.	U	10.	U	10.	U	10.	U
127-18-4 Tetrachloroethene	10.	U	10.	U	10.	U	10.	U
108-88-3 Toluene	10.	U	10.	U	10.	U	10.	U
71-55-6 1,1,1-Trichloroethane	10.	U	10.	U	10.	U	10.	U
79-00-5 1,1,2-Trichloroethane	10.	U	10.	U	10.	U	10.	U
79-01-6 Trichloroethene	10.	U	10.	U	10.	U	10.	U

\*\*\* Validation Complete \*\*\*

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CEDAR CHEMICAL - WEST HELENA, AK  
CEDAR CHEMICAL PHASE 3 DATA

Page:

G114-19 VOM	SAMPLE ID -----> ORIGINAL ID -----> LAB SAMPLE ID -----> SAMPLE DATE -----> DATE EXTRACTED --> DATE ANALYZED --> MATRIX -----> UNITS ----->	00E-G-0002-03 00EG000203 8957 04/02/96 04/12/96 04/12/96 Water UG/L	OFF-G-0001-03 OFFG000103 8960 04/02/96 04/11/96 04/11/96 Water UG/L	A	OFF-G-0002-03 OFFG000203 8961 04/02/96 04/12/96 04/12/96 Water UG/L	A	OFF-H-0002-03 OFFHG000205 8962 04/02/96 04/12/96 04/12/96 Water UG/L	A	OFF-G-0003- OFFG000303 8963 04/02/96 04/11/96 04/11/96 Water UG/L	A	OFF-G-0003- OFFG000303 8964 04/02/96 04/11/96 04/11/96 Water UG/L	A	
CAS #	Parameter												
108-05-4	Vinyl acetate	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
75-01-4	Vinyl chloride	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
1330-20-7	Xylene (total)	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
95-47-6	o-Xylene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U

\*\*\* Validation Complete \*\*\*